## This Page Is Inserted by IFW Operations and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

## IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

residence Post office and the	eby declare that:	contectowinexticomy name was seen	
on every amount or 19 mais	st and sole inventor (if onl)	y one namen is listed below horden is	riginal a first
and its sound on the kinventio	n energiece	voice must be seen to	
TOTAL PROPERTY OF THE PROPERTY OF THE VICE OF THE PROPERTY OF	COMPUTATIONS FOR GENERATING	ADDRESSING ENFORMATION TO THE THE PROPERTY OF	
e specification of which (chec	ck one)		
in is attached hereto.		. O er e de d	***
was filed on	as United States App	plication Number	
or PCT International App	lication Number		
and was amended on	(if applie		
A claims, as amended by any de	Heliquiette Teretrat	pts of the above identified specif	
cordance with Title 37, code (	Of tederor wedarant	erial to the patentability of this on 1.56.	
preign application(s) for pate	ountry other than the United	tod States Code, §119(a)-(d) or §3 or §365(a) of any PCT Internation States, listed below and have also inventor's certificate, or PCT Inte- ation on which priority is claimed:	identified below,
rior Foreign Application(s)			priority Claimed
2002-206202	JAPAN .	15/07/2002 (Day/Month/Year Filed)	X Yes No
(Number)	(Country)	(Day/Month/Year Filed)	Yes No
(Number)	(Country)	(Day/Month/Year Filed)	_ Yes _ No
(Number)	(Country)		on(s) listed below.
hereby claim the benefit unde	er 35 U.S.C. '119(e) of any U	nited States provisional applicati	•···(=, ======
Application Number)	(Filing Date)		
	(Filing Date)	<del></del>	
hereby claim the benefit under international application design the claims of this application the manner provided by the	ion is not disclosed in the p first paragraph of 35 U.S.C.	ed States Application(s), or §365( sted below and, insofar as the sub rior United States, or PCT Interna §112, I acknowledge the duty to di d in 37 CFR §1.56 which occurred h	tional application sclose information setween the filing
hereby claim the benefit under national application design the claims of this application the manner provided by the	ion is not disclosed in the p first paragraph of 35 U.S.C.	rior United States, or PCT Interna §112, I acknowledge the duty to di ed in 37 CFR §1.96 which occurred be chational filing date of this appli	tional application sclose information setween the filing cation:
thereby claim the benefit under the chains of this application design of the claims of this application the manner provided by the material to the patentability distence of the prior application of the prior application.	ion is not disclosed in the p first paragraph of 35 U.S.C.	rior United States, or PCT Interna §112, I acknowledge the duty to di ed in 37 CFR §1.96 which occurred be chational filing date of this appli	tional application sclose information setween the filing cation:
hereby claim the benefit under international application design the claims of this application the manner provided by the staterial to the patentability date of the prior application (Application Serial No.)	gracting the disclosed in the p first paragraph of 35 U.S.C. of this application as define and the national or PCT inter (Filing Date)	gior United States, or PCT Internations of the states of the states of the states of this appliance of this appliance of this appliance of the states of the	tional application sclose information setween the filing cation: ding, abandoned)
hereby claim the benefit under international application design the claims of this application to the manner provided by the laterial to the patentability (Application Serial No.)  (Application Serial No.)  [Application Serial No.]  [Application and belief are belief that willful false statements section 1001 of Title 18 of the	ion is not disclosed in the p first paragraph of 35 U.S.C. of this application as define and the national or PCT inter  (Filing Date)  (Filing Date)  (Filing Date)  (ements made herein of my own leved to be true; and further and the like so made are punisus United States Code and that	gior United States, or PCT Interna §112, I acknowledge the duty to died in 37 CFR §1.96 which occurred by the died in 37 CFR §1.96 which occurred the control filing date of this appliance of the control of the contro	cional application sclose information sctween the filing cation:  ding, abandoned) ding, abandoned) catements made on with the knewledge both, under pardize the validity
(Application Serial No.)  (Application Serial No.)  (Application Serial No.)  (Application and belief are beliant willful false statements  (at the statement of the statements section 1001 of fittle 18 of the	ion is not disclosed in the p first paragraph of 35 U.S.C. of this application as define and the national or PCT inter  (Filing Date)  (Filing Date)  (Filing Date)  (ements made herein of my own leved to be true; and further and the like so made are punisus United States Code and that	gior United States, or PCT Interna §112, I acknowledge the duty to died in 37 CFR §1.96 which occurred by the died in 37 CFR §1.96 which occurred the control filing date of this appliance of the control of the contro	cional application sclose information sctween the filing cation:  ding, abandoned) ding, abandoned) catements made on with the knewledge both, under pardize the validity
hereby claim the benefit under the chaims of this application design of the claims of this application the manner provided by the chaims of this application that exist to the patentability (application Serial No.)  (Application Serial No.)  [Application Serial No.]  [Application design that all state information and belief are belief that willful false statements section 1001 of Title 18 of the	ion is not disclosed in the p first paragraph of 35 U.S.C. of this application as define and the national or PCT inter  (Filing Date)  (Filing Date)  (Filing Date)  (ements made herein of my own leved to be true; and further and the like so made are punisus United States Code and that	gior United States, or PCT Interna \$112, I acknowledge the duty to died in 37 CFR \$1.56 which occurred brational filing date of this appliance (Status) (patented, pendatus) (pat	cional application sclose information setween the filing cation:  ding, abandoned) ding, abandoned) catements made on with the knowledge to both, under pardize the validity
chereby claim the benefit under international application design the claims of this application the claims of this application of the claims of this application of the manner provided by the material to the patentability of the prior application of the prior application (Application Serial No.)  (Application Serial No.)  I hereby declare that all statinformation and belief are belthat willful false statements section 1001 of Title 18 of the application or any patents application and transact registration number).  Manny W. Schecter (Reg. 31, Alison D. Mortinger (Reg. 31, Alison D. Mortinger (Reg. 32, 41,500), Thu Ann Dang (Reg. 42, 410), Derei seed Correspondence to: Louis Second Correspondenc	ion is not disclosed in the p first paragraph of 35 U.S.C. of this application as define and the national or PCT inter  (Filing Date)  (Filin	Sile United States, or PCT International file in 37 CFR \$1.56 which occurred he mational filing date of this appliance of the this appliance of	cional application sclose information sctween the filing cation:  ding, abandoned) ding, abandoned) catements made on with the knewledge both, under pardize the validity
chereby claim the benefit under international application design of the claims of this application the claims of this application of the claims of this application of the manner provided by the material to the patentability of the patentability of the prior application of the prior application of the prior application of the reby declare that all states information and belief are belief that willful false statements section 1001 of Title 18 of the of the application or any pater power of ATTORNEY: As a named this application and transact registration number).  Manny W. Schecter (Reg. 31, Alison D. Mortinger (Reg. 31, Alison D. Mortinger (Reg. 32, Choung (Reg. 42, 410), Derei Send Correspondence to: Louis J. Percello (Reg. 33. Cheung (Reg. 42, 410), Derei Send Correspondence to: Louis J. Lense Lense	ion is not disclosed in the pfirst paragraph of 35 U.S.C. of this application as define and the national or PCT inter (Filing Date)  (Filing	gior United States, or PCT Interna §112, I acknowledge the duty to died in 37 CFR §1.96 which occurred by the died in 37 CFR §1.96 which occurred by the died in 37 CFR §1.96 which occurred by the died in 37 CFR §1.96 which occurred by the died in a political state of this appliance of the died in a political state of the died in	cional application sclose information sctween the filing cation:  ding, abandoned) ding, abandoned) catements made on with the knewledge both, under pardize the validity
chereby claim the benefit under international application design of the claims of this application the claims of this application of the claims of this application of the manner provided by the material to the patentability of the patentability of the prior application of the prior application of the prior application of the reby declare that all states information and belief are belief that willful false statements section 1001 of Title 18 of the of the application or any pater power of ATTORNEY: As a named this application and transact registration number).  Manny W. Schecter (Reg. 31, Alison D. Mortinger (Reg. 31, Alison D. Mortinger (Reg. 32, Choung (Reg. 42, 410), Derei Send Correspondence to: Louis J. Percello (Reg. 33. Cheung (Reg. 42, 410), Derei Send Correspondence to: Louis J. Lense Lense	ion is not disclosed in the pfirst paragraph of 35 U.S.C. of this application as define and the national or PCT inter (Filing Date)  (Filing	gior United States, or PCT Interna §112, I acknowledge the duty to died in 37 CFR §1.96 which occurred by the died in 37 CFR §1.96 which occurred by the died in 37 CFR §1.96 which occurred by the died in 37 CFR §1.96 which occurred by the died in a political state of this appliance of the died in a political state of the died in	cional application sclose information sctween the filing cation:  ding, abandoned) ding, abandoned) catements made on with the knewledge both, under pardize the validity
Chereby claim the benefit under International application design of the claims of this application the manner provided by the insterial to the patentability of date of the prior application (Application Serial No.)  (Application Serial No.)  (Application Serial No.)  I hereby declare that all statinformation and belief are beliant willful false statements Section 1001 of Title 18 of the of the application or any pater power of ATTORNEY: As a named this application and transact registration number).  Manny W. Schecter (Reg. 31, Alison D. Mortinger (Reg. 34, 500), Thu Ann Dang (Reg. 14, 500), Thu Ann Dang (Reg. 15, 1500), Thu Ann Dang (Reg. 16, 1500), Thu Ann Dang (Reg. 16, 1500), Thu Ann Dang (Reg. 17, 1500), Thu Ann Dang (Reg. 18, 1500), Thu Ann Dang (Reg. 18, 1500), Thu Ann Dang (Reg. 18, 1500), Derei Send Correspondence to: Louis J. Percello (Reg. 33).  Direct Telephone Calls to: (Manney Reg. 18, 1500)	ion is not disclosed in the pfirst paragraph of 35 U.S.C. of this application as define and the national or PCT inter (Filing Date)  (Filing	gior United States, or PCT Interna §112, I acknowledge the duty to died in 37 CFR §1.56 which occurred he mational filing date of this applia (Status) (patented, pendanted) (Status) (patented) (Status) (patented) (Status) (patented) (Status) (patented) (Status) (patented) (status) (patented) (pat	cional application sclose information sctween the filing cation:  ding, abandoned) ding, abandoned) catements made on with the knewledge both, under pardize the validity
chereby claim the benefit under international application design of the claims of this application the manner provided by the internation to the patentability of the of the prior application (Application Serial No.)  (Application Serial No.)  (Application Serial No.)  I hereby declare that all statinformation and belief are belief are belief are belief are belief are belief are belief and that willful false statements section 1001 of Title 18 of the application or any patents application and transact registration number).  Manny W. Schecter (Reg. 31, Alison D. Mortinger (Reg. 34, 1, 500), Thu Ann Dang (Reg. 41, 500), Thu Ann Dang (Reg. 42, 410), Derei Send Correspondence to: Louis J. Percello (Reg. 33, Cheung (Reg. 42, 410), Derei Direct Telephone Calls to: (number) Ann Abe	ion is not disclosed in the p first paragraph of 35 U.S.C. of this application as define and the national or PCT inter  (Filing Date)  (Filin	gior United States, or PCT Interna §112, I acknowledge the duty to died in 37 CFR §1.96 which occurred by the died in 37 CFR §1.96 which occurred by the died in 37 CFR §1.96 which occurred by the died in 37 CFR §1.96 (patented, pendanged in the died in the d	cional application sclose information sctween the filing cation:  ding, abandoned) ding, abandoned) catements made on with the knewledge both, under pardize the validity
chereby claim the benefit under international application design of the claims of this application the manner provided by the naterial to the patentability of the of the prior application (Application Serial No.)  (Application Serial No.)  (Application Serial No.)  I hereby declare that all statinformation and belief are belief are belief are belief are belief are belief and the application or any patenta willful false statements Section 1001 of Title 18 of the application or any patents application and transact registration number).  Manny W. Schecter (Reg. 31, Alison D. Mortinger (Reg. 31, Alison D. Mortinger (Reg. 32, 41,500), Thu Ann Dang (Reg. 42,410), Derei Send Correspondence to: Louis J. Fercello (Reg. 33, Cheung (Reg. 42,410), Derei Direct Telephone Calls to: (m. Mari Abe	ion is not disclosed in the p first paragraph of 35 U.S.C. of this application as define and the national or PCT inter  (Filing Date)  (Filin	gior United States, or PCT Interna §112, I acknowledge the duty to died in 37 CFR §1.56 which occurred he mational filing date of this applia (Status) (patented, pendanted) (Status) (patented) (Status) (patented) (Status) (patented) (Status) (patented) (Status) (patented) (status) (patented) (pat	sclose information sclose information sclose information schewen the filing cation:  ding, abandoned) ding, abandoned) ding, abandoned) atements made on the the knowledge both, under both, under both, under both, in the validity both of the validity and the validity of th
Thereby claim the benefit under international application design of the claims of this application the manner provided by the international to the patentability of the of the prior application (Application Serial No.)  (Application Serial No.)  (Application Serial No.)  (Application Serial No.)  I hereby declare that all statinformation and belief are belthat willful false statements Section 1001 of Title 18 of the application or any pate Power of Attorney: As a named this application and transact registraction number).  Manny W. Schecter (Reg. 31, Alison D. Mortinger (Reg. 31, Alison D. Mortinger (Reg. 32, 41,500), Thu Ann Dang (Reg. 42,410), Derei Send Correspondence to: Louis J. Percello (Reg. 33, Cheung (Reg. 42,410), Derei Direct Telephone Calls to: (no Mari Abe Full name of sole or fix Inventor's Signature	ion is not disclosed in the p first paragraph of 35 U.S.C. of this application as define and the national or PCT inter  (Filing Date)  (Filin	Sile United States, or PCT Interna \$112, I acknowledge the duty to died in 37 CFR \$1.56 which occurred he mational filling date of this appliance of the second of the	sclose information sclose information sclose information schewen the filing cation:  ding, abandoned) ding, abandoned) ding, abandoned) atements made on the the knowledge both, under both, under both, under both, in the validity both of the validity and the validity of th
chereby claim the benefit under international application design of the claims of this application the claims of this application of the claims of this application the manner provided by the material to the patentability of the prior application of the prior application (Application Serial No.)  (Application Serial No.)  (Application Serial No.)  I hereby declare that all statinformation and belief are belief are belief are belief that willful false statements section 1001 of Title 18 of the of the application or any paterior application and transact registration number).  Manny W. Schecter (Reg. 31, Alison D. Mortinger (Reg. 34, 1, 500), Thu Ann Dang (Reg. 41, 500), Thu Ann Dang (Reg. 42, 410), Derei Send Correspondence to: Louis J. Percello (Reg. 33, Cheung (Reg. 42, 410), Derei Direct Telephone Calls to: (no Mari Abe Full name of sole or fix Inventor's Signature 3-10-6 Shibusawa, Hada	ion is not disclosed in the p first paragraph of 35 U.S.C. of this application as define and the national or PCT inter  (Filing Date)  (Filin	Sile United States, or PCT Interna \$112, I acknowledge the duty to died in 37 CFR \$1.56 which occurred he mational filling date of this appliance of the second of the	sclose information sclose information sclose information schewen the filing cation:  ding, abandoned) ding, abandoned) ding, abandoned) atements made on the the knowledge both, under both, under both, under both, in the validity both of the validity and the validity of th

13 name of second point as			16119335	
Vencor de l'elignateur et l'était l'elignateur et l'était le l'était le l'était le l'était le l'était le l'éta				
3-15-18 Chucurinkan. Yama	o-shi, Kanadawa ke	n yapan		
sidence				17.
Japan tizenship	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
st Office Address				
ohichi Ono all name of third joint-in	ventor if any			
Kohichi Ono		Tul	49,200	2.3
ventor's signature		De	ito	
-2-4-401 Wakabayashi, Set	agava-ku. Tokvo	Japan		
-Z-4-401 WARABAYASHI, SEC	adaya-ku, tokyo			
Japan				
tizenship			-	• •
Same as above.				
ost Office Address	•	•		
	· ·			
Masahiro Hori 111 nama of fourth joint-i	nventor, if any			<del>.</del>
$\wedge$ $\rho \leftarrow 1$		Jul	11, 2003	
			7 ate	<del></del>
l-2-12-103 Kanegaya, Asahi	-ku Yokohama-shi,	· · ·		<del></del>
1-2-12-103 Kanegaya, Asahi esidence Japan	-ku Yokohama-shi,	· · ·		,
1-2-12-103 Kanegaya, Asahi esidence Japan itizenship Same as above.	-ku Yokohama-shi.	Kanagawa-ken Japan		
1-2-12-103 Kanegaya, Asahi esidence Japan itizenship Same as above.	-ku Yokohama-shi,	Kanagawa-ken Japan		:
1-2-12-103 Kanegaya, Asahi esidence Japan itizenship Same as above. ost Office Address		Kanagawa-ken Japan		
2-2-12-103 Kanegaya, Asahi esidence Japan itizenship Same as above ost Office Address Takuya Nakaike	ventor, if any	Kanagawa-ken Japan	9. 2003	
1-2-12-103 Kanegaya, Asahi esidence Japan itizenship Same as above ost Office Address Takuya Nakaike ull name of fifth joint in		Kanagawa-ken Japan	9, 2003	
1-2-12-103 Kanegaya, Asahi esidence  Japan itizenship  Same as above, ost Office Address  Takuya Nakaike ull name of fifth joint in	nventor, if any Nakaike	Kanagawa-ken Japan	9, 2003-	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Japan itizenship Same as above ost Office Address  Takuya Nakaike ull name of fifth joint in mentor's Signature	ventor, if any	Kanagawa-ken Japan  July	9, 2003-	
Japan itizenship Same as above ost Office Address  Takuya Nakaike ull name of fifth joint in nventor's signature	nventor, if any Nakaike	Kanagawa-ken Japan  July  -ken Japan	9, 2003-	
Japan  Takuya Nakaike  ull name of fifth joint in  Takuya Nakaike  ull name of fifth joint in  Takuya Nakaike  ull name of fifth joint in  Takuya	nventor, if any Nakaike	Kanagawa-ken Japan  July  Length Japan  Commendation of the service of the servic	9, 2003-	
Japan Takuya Nakaike coll name of fifth joint in Takuya Nakaike coll name of fifth joint in Takuya Nakaike coll name of fifth joint in Takuya Takuya Nakaike coll name of fifth joint in Takuya Takuya	nventor, if any Nakaike	Kanagawa-ken Japan  July  a-ken Japan	9, 2003	Y
Japan  Takuya Nakaike  ull name of fifth joint in  Takuya Nakaike  ull name of fifth joint in  Takuya Nakaike  ull name of fifth joint in  Takuya  Takuya Nakaike  ull name of fifth joint in  Takuya  Takuya	Nakaike	Kanagawa-ken Japan  July  -ken Japan	9, 2003	
Japan  Takuya Nakaike  Uli name of fifth joint in  Takuya  Takuya Nakaike  Uli name of fifth joint in  Takuya  Takuya Nakaike  Uli name of fifth joint in  Takuya  Takuya Nakaike  Uli name of fifth joint in  Takuya  Takuya Nakaike  Uli name of fifth joint in  Takuya  Takuya Nakaike  Uli name of fifth joint in  Takuya Nakaike  Uli name of fifth joint in  Takuya  Takuya Nakaike  Uli name of fifth joint in  Takuya Nakaike  Uli name of fifth joint in  Takuya Nakaike  On of fifth joint in  Takuya Nakaike  Uli name of fifth joint in  Takuya Nakaike  On of fifth joint in  Takuya Nakaik	Nakaike	Kanagawa-ken Japan  July  -ken Japan	9, 2003	
Japan  Takuya Nakaike  ull name of fifth joint in  mwentor's Signature  4-10-1-105 Chuourinkan, Ya esidence  Japan  itizenship  Same as above  ost Office Address	Noentor, if any Nakaike Mato-shi Kanadawa	Kanagawa-ken Japan July	9, 2003	Y and a second
Japan  Takuya Nakaike  ull name of fifth joint in  Takuya Nakaike  ull name of fifth joint in  Takuya  Ya  Takuya Nakaike  ull name of fifth joint in  Takuya	Noentor, if any Nakaike Mato-shi Kanadawa	Kanagawa-ken Japan  July  -ken Japan	9, 2003	Y and a second
Japan itizenship Same as above. ost Office Address  Takuya Nakaike ull name of fifth joint in Takuya nventor's Signature  4-10-1-105 Chuourinkan, Yaesidence Japan itizenship same as above. ost Office Address	Nakaike  Mato-shi Kanagawa	Kanagawa-ken Japan  July  -ken Japan	9, 2003	Y and a second
Japan itizenship Same as above	Nemtor, if any Nakaike mato-shi Kanagawa	Kanagawa-ken Japan  July  -ken Japan	9, 2003-	Y : W : W : W : W : W : W : W : W : W :
Japan itizenship Same as above ost Office Address  Takuya Nakaike ull name of fifth joint in Takuya nventor's Signature  4-10-1-105 Chuourinkan, Ya esidence  Japan itizenship itizenship ost Office Address  ull name of sixth joint-in nventor's signature	Nemtor, if any Nakaike mato-shi Kanagawa	Kanagawa-ken Japan  July  A-ken Japan  Control  Solution	9, 2003-	Y : W : W : W : W : W : W : W : W : W :